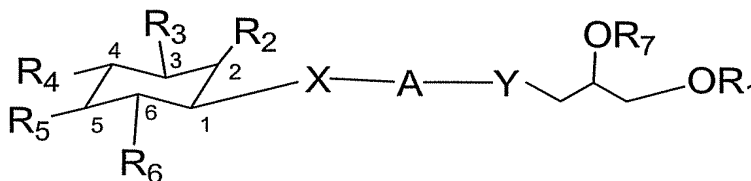


*AMENDMENTS TO THE CLAIMS*

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A compound of the formula I:



(I)

or a pharmaceutically acceptable salt thereof;

wherein X and Y are independently selected from the group consisting of O, CF<sub>2</sub>, CH<sub>2</sub>, and CHF;

wherein A is P(O)OH;

R<sub>2</sub> is selected from the group consisting of H, OH, C<sub>1</sub>-C<sub>25</sub> alkyloxy, C<sub>6</sub>-C<sub>10</sub> aryloxy, C<sub>3</sub>-C<sub>8</sub> cycloalkyloxy, C<sub>3</sub>-C<sub>8</sub> cycloalkyl C<sub>1</sub>-C<sub>6</sub> alkoxy, C<sub>2</sub>-C<sub>22</sub> alkenyloxy, C<sub>3</sub>-C<sub>8</sub> cycloalkenyloxy, C<sub>7</sub>-C<sub>32</sub> aralkyloxy, C<sub>7</sub>-C<sub>32</sub> alkylaryloxy, C<sub>9</sub>-C<sub>32</sub> aralkenyloxy, and C<sub>9</sub>-C<sub>32</sub> alkenylaryloxy;

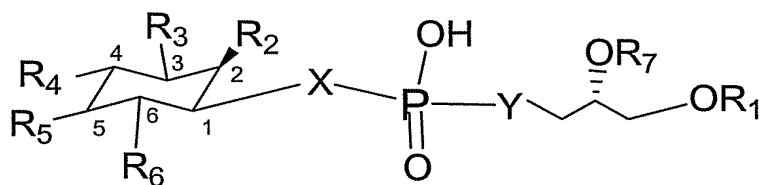
R<sub>3</sub>-R<sub>6</sub> are independently selected from the group consisting of H and OH; and

R<sub>1</sub> and R<sub>7</sub> are independently selected from the group consisting of C<sub>1</sub>-C<sub>25</sub> alkyl, C<sub>6</sub>-C<sub>10</sub> aryl, C<sub>3</sub>-C<sub>8</sub> cycloalkyl, C<sub>2</sub>-C<sub>22</sub> alkenyl, C<sub>3</sub>-C<sub>8</sub> cycloalkenyl, C<sub>7</sub>-C<sub>32</sub> aralkyl, C<sub>7</sub>-C<sub>32</sub> alkylaryl, C<sub>9</sub>-C<sub>32</sub> aralkenyl, and C<sub>9</sub>-C<sub>32</sub> alkenylaryl;

with the provisos that (i) when X is O, Y is O or CH<sub>2</sub>, and R<sub>3</sub> is H, at least one of R<sub>2</sub> and R<sub>4</sub>-R<sub>6</sub> is not OH; (ii) all of R<sub>2</sub>-R<sub>6</sub> are not simultaneously H; (iii) R<sub>5</sub> and R<sub>4</sub> are not simultaneously H; [[and]] (iv) R<sub>2</sub>, R<sub>3</sub>, R<sub>5</sub>, and R<sub>6</sub> are not simultaneously OH or H; and (v) when X and Y are O, R<sub>1</sub> is C<sub>18</sub>H<sub>37</sub>, and only one of R<sub>2</sub> and R<sub>6</sub> is OCH<sub>3</sub>, then R<sub>3</sub> and R<sub>5</sub> are not simultaneously OH.

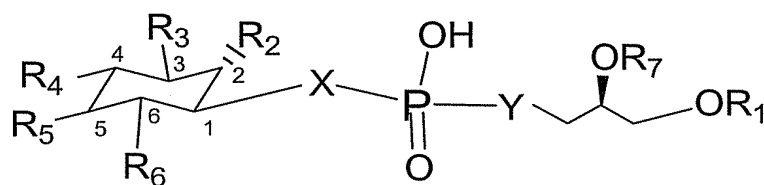
2. (Canceled)

3. (Previously Presented) The compound of claim 1, which has the formula Ia:



(Ia).

4. (Previously Presented) The compound of claim 1, which has the formula Ib:



(Ib).

5. (Currently Amended) The compound of claim 1, wherein X and Y are O.

6. (Previously Presented) The compound of claim 1, wherein R<sub>1</sub> is a C<sub>1</sub>-C<sub>25</sub> alkyl.

7. (Previously Presented) The compound of claim 1, wherein R<sub>1</sub> is a C<sub>10</sub>-C<sub>25</sub> alkyl.

8. (Previously Presented) The compound of claim 1, wherein R<sub>1</sub> is a C<sub>15</sub>-C<sub>20</sub> alkyl.

9. (Previously Presented) The compound of claim 1, wherein R<sub>1</sub> is a C<sub>18</sub> alkyl.

10. (Previously Presented) The compound of claim 1, wherein R<sub>7</sub> is a C<sub>1</sub>-C<sub>25</sub> alkyl.

11. (Previously Presented) The compound of claim 1, wherein R<sub>7</sub> is a C<sub>1</sub>-C<sub>15</sub> alkyl.

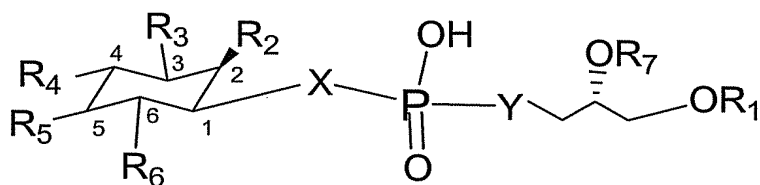
12. (Previously Presented) The compound of claim 1, wherein R<sub>7</sub> is a C<sub>1</sub>-C<sub>5</sub> alkyl.

13. (Previously Presented) The compound of claim 1, wherein R<sub>7</sub> is methyl.

14. (Previously Presented) The compound of claim 1, wherein R<sub>2</sub> is C<sub>1</sub>-C<sub>25</sub> alkyloxy.

15. (Previously Presented) The compound of claim 1, wherein R<sub>2</sub> is C<sub>1</sub>-C<sub>15</sub> alkyloxy.

16. (Previously Presented) The compound of claim 1, wherein R<sub>2</sub> is C<sub>1</sub>-C<sub>5</sub> alkyloxy.
17. (Previously Presented) The compound of claim 1, wherein R<sub>2</sub> is methoxy.
18. (Previously Presented) The compound of claim 1, wherein R<sub>2</sub> is C<sub>7</sub>-C<sub>32</sub> aralkyloxy.
19. (Previously Presented) The compound of claim 1, wherein R<sub>2</sub> is cyclohexylmethoxy.
20. (Previously Presented) The compound of claim 1, wherein R<sub>2</sub> is H.
21. (Previously Presented) The compound of claim 1, wherein R<sub>3</sub> is H.
22. (Previously Presented) The compound of claim 1, wherein R<sub>4</sub> is H.
23. (Previously Presented) The compound of claim 1, wherein R<sub>5</sub> is H.
24. (Previously Presented) The compound of claim 1, wherein R<sub>6</sub> is H.
25. (Previously Presented) The compound of claim 1, wherein R<sub>2</sub> and R<sub>3</sub> are H.
26. (Previously Presented) The compound of claim 1, wherein R<sub>3</sub> and R<sub>4</sub> are H.
27. (Previously Presented) The compound of claim 1, wherein R<sub>5</sub> and R<sub>6</sub> are H.
28. (Original) The compound of claim 3, wherein X and Y are O, R<sub>1</sub> is C<sub>18</sub>H<sub>37</sub>, and R<sub>7</sub> is methyl.
29. (Original) The compound of claim 28, wherein R<sub>2</sub> is methoxy, R<sub>3</sub> is H, and R<sub>4</sub>-R<sub>6</sub> are OH.
30. (Original) The compound of claim 28, wherein R<sub>2</sub>-R<sub>3</sub> are H and R<sub>4</sub>-R<sub>6</sub> are OH.
31. (Currently Amended) ~~The compound of claim 28,~~ A compound of the formula:

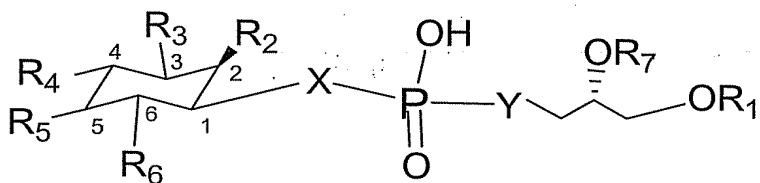


wherein X and Y are O, R<sub>1</sub> is C<sub>18</sub>H<sub>37</sub>, and R<sub>7</sub> is methyl; and R<sub>2</sub>-R<sub>3</sub> and R<sub>5</sub>-R<sub>6</sub> are OH and R<sub>4</sub> is H.

32. (Original) The compound of claim 28, wherein R<sub>2</sub> is i-butyloxy, R<sub>3</sub> is H, and R<sub>4</sub>-R<sub>6</sub> are OH.

33. (Original) The compound of claim 28, wherein R<sub>2</sub> is cyclohexylmethoxy, R<sub>3</sub> is H, and R<sub>4</sub>-R<sub>6</sub> are OH.

34. (Currently Amended) ~~The compound of claim 28,~~ A compound of the formula:



wherein X and Y are O, R<sub>1</sub> is C<sub>18</sub>H<sub>37</sub>, R<sub>7</sub> is methyl, R<sub>2</sub>-R<sub>3</sub> and R<sub>6</sub> are OH, and R<sub>4</sub>-R<sub>5</sub> are H.

35. (Original) The compound of claim 28, wherein R<sub>2</sub>-R<sub>4</sub> and R<sub>6</sub> are OH and R<sub>5</sub> is H.

36. (Original) The compound of claim 28, wherein R<sub>2</sub>, R<sub>4</sub>, and R<sub>6</sub> are OH and R<sub>3</sub> and R<sub>5</sub> are H.

37. (Previously Presented) A pharmaceutical composition comprising a compound of claim 1 and a pharmaceutically acceptable carrier.

38. (Previously Presented) A method of inhibiting activation of the serine/threonine kinase Akt or decreasing phosphorylation in a tumor cell of an animal comprising administering to the animal an effective amount of a compound of claim 1.

39-52. (Canceled)

53. (Previously Presented) A method of increasing apoptosis of a cell comprising contacting the cell with a compound of claim 1.

54. (Previously Presented) A method for inhibiting PH domain binding comprising exposing a material containing an PH domain to a compound of claim 1.

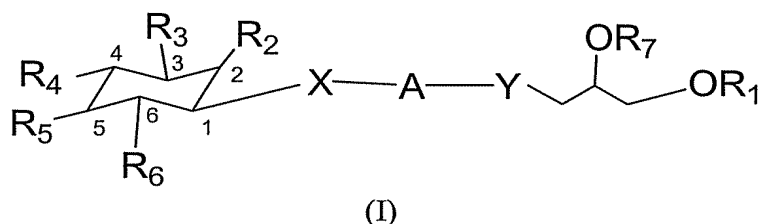
55. (Previously Presented) A method for determining the presence of a PH domain in a material comprising:

- (a) exposing a sample of said material to a PH domain binding compound and obtaining a first binding result;
- (b) exposing another sample of said material to a compound of claim 1 and obtaining a second binding result; and
- (c) comparing the first and second binding results to determine whether a PH domain is present in the material.

56. (Currently Amended) A method of treating cancer in a mammal comprising administering to the mammal an effective amount of a compound of claim 1, wherein the cancer is selected from the group consisting of lung cancer, breast cancer, ovarian cancer, colorectal cancer, and brain cancer.

57. (Canceled)

58. (Currently Amended) A compound of the formula I:



or a pharmaceutically acceptable salt thereof;

wherein X and Y are independently selected from the group consisting of O, CF<sub>2</sub>, CH<sub>2</sub>, and CHF;

wherein A is P(O)OH; ~~independently selected from the group consisting of P(O)OH, CHCOOH, and C(COOH)<sub>2</sub>~~;

R<sub>2</sub> is selected from the group consisting of C<sub>1</sub>-C<sub>25</sub> alkyloxy, cyclohexylmethoxy, and C<sub>7</sub>-C<sub>32</sub> aralkyloxy;

R<sub>3</sub>-R<sub>6</sub> are independently selected from the group consisting of H, OH, isosteres of OH; and R<sub>1</sub> and R<sub>7</sub> are independently selected from the group consisting of C<sub>1</sub>-C<sub>25</sub> alkyl, C<sub>6</sub>-C<sub>10</sub> aryl, C<sub>3</sub>-C<sub>8</sub> cycloalkyl, C<sub>2</sub>-C<sub>22</sub> alkenyl, C<sub>3</sub>-C<sub>8</sub> cycloalkenyl, C<sub>7</sub>-C<sub>32</sub> aralkyl, C<sub>7</sub>-C<sub>32</sub> alkylaryl, C<sub>9</sub>-C<sub>32</sub> aralkenyl, and C<sub>9</sub>-C<sub>32</sub> alkenylaryl;

with the provisos that (i) when X is O, Y is O or CH<sub>2</sub>, and R<sub>3</sub> is H, at least one of R<sub>2</sub> and R<sub>4</sub>-R<sub>6</sub> is not OH; (ii) ~~when A is CHCOOH or C(COOH)<sub>2</sub>, X and Y cannot be simultaneously O;~~ and (iii) all of R<sub>2</sub>-R<sub>6</sub> are not simultaneously H; and when X and Y are O, R<sub>1</sub> is C<sub>18</sub>H<sub>37</sub>, and only one of R<sub>2</sub> and R<sub>6</sub> is OCH<sub>3</sub>, then R<sub>3</sub> and R<sub>5</sub> are not simultaneously OH.

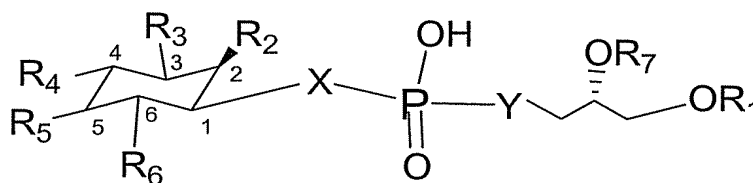
59. (Previously Presented) The compound of claim 58, wherein R<sub>2</sub> is C<sub>1</sub>-C<sub>25</sub> alkyloxy.

60. (Previously Presented) The compound of claim 58, wherein R<sub>2</sub> is C<sub>7</sub>-C<sub>32</sub> aralkyloxy.

61. (Previously Presented) The compound of claim 58, wherein R<sub>2</sub> is cyclohexylmethoxy.

62. (Previously Presented) The compound of claim 58, wherein R<sub>3</sub> and R<sub>4</sub> are H.

63. (Previously Presented) The compound of claim 58, which has the formula Ia:



(Ia)

wherein X and Y are O, R<sub>1</sub> is C<sub>18</sub>H<sub>37</sub>, R<sub>7</sub> is methyl, R<sub>2</sub> is methoxy, R<sub>3</sub> is H, and R<sub>4</sub>-R<sub>6</sub> are OH.

64. (Previously Presented) A method of increasing apoptosis of a cell comprising contacting the cell with a compound of claim 58.

65. (Previously Presented) A method for inhibiting PH domain binding comprising exposing a material containing an PH domain to a compound of claim 58.

66. (Previously Presented) A pharmaceutical composition comprising a compound of claim 58 and a pharmaceutically acceptable carrier.

67. (Currently Amended) A method of treating cancer in a mammal comprising administering to the mammal an effective amount of a compound of claim 58, wherein the cancer is selected from the group consisting of lung cancer, breast cancer, ovarian cancer, colorectal cancer, and brain cancer.

68. (Previously Presented) A method of inhibiting activation of the serine/threonine kinase Akt or decreasing phosphorylation in a tumor cell of an animal comprising administering to the animal an effective amount of a compound of claim 58.

69. (Canceled)

70. (New) A pharmaceutical composition comprising a compound of claim 31 and a pharmaceutically acceptable carrier.

71. (New) A pharmaceutical composition comprising a compound of claim 34 and a pharmaceutically acceptable carrier.